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Docket: AUS920040036US1(4038)

AMENDMENT OF THE CLAIMS

1.   (Currently Amended) A method to test a code segment of a source file, comprising:

selecting the code segment from the source file for testing based upon input from a user, the code segment being self-contained;

machine-rendering a source code skeleton in response selecting the code segment, wherein machine-rendering comprises choosing additional code to include in the source code skeleton to supplement the code segment for compilation;

verifying ~~that~~whether the code segment has an entry point to determine that the code segment does not have an entry point;

inserting the entry point into the source code skeleton in response to determining that the code segment does not have the entry point;

incorporating the code segment into the source code skeleton to generate a temporary source file;

inserting a monitoring statement into the temporary source file, the monitoring statement to provide runtime data associated with the code segment; ~~and~~

compiling the temporary source file into a compiled program; and

executing the compiled program to output a result based upon the monitoring statement ~~when the temporary source file is executed~~.

2.   (Currently Amended) The method of claim 1, further comprising:

~~executing the compiled program; and~~

~~outputting~~displaying the result in response to the executing, wherein the result is based upon the monitoring statement.

3.   (Original) The method of claim 1, wherein the compiling comprises:

initiating compilation of the temporary source file;

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attempting to resolve a compilation error; and

outputting the compilation error.

4. (Original) The method of claim 3, further comprising assigning data to a variable to resolve the compilation error.

5. (Original) The method of claim 1, wherein the compiling comprises:

initiating compilation of the temporary source file; and

resolving a compilation error encountered during compilation.

6. (Original) The method of claim 1, wherein machine-rendering comprises copying external code referenced by the code segment into the temporary source file.

7. (Original) The method of claim 1, wherein inserting the monitoring statement comprises prompting a programmer to select a variable to associate with the result and inserting an assignment statement into the temporary source file to capture the runtime data from the selected variable.

8. (Original) The method of claim 1, wherein inserting the monitoring statement comprises inserting a time stamp statement into the temporary source file to capture a time stamp.

9. (Currently Amended) A system to test a code segment of a source file, comprising:

an interface to select the code segment based upon input from a user;

a file creator to machine-render a source code skeleton to create a temporary source file in response to a-selection of the code segment via the interface, the file creator to machine-render the source code skeleton with additional code, the file creator to choose the additional code based upon the code segment to supplement the code segment for compilation;

a code gatherer to verify thatwhether the code segment has an entry point to determine that the code segment does not have an entry point, insert the

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entry point into the source code skeleton in response to determining that the code segment does not have the entry point, and copy the code segment into the source code skeleton to generate a temporary source file;

a code generator to insert a monitoring statement, the monitoring statement to provide runtime data associated with the code segment;

an adaptive compiler to compile the temporary source file into a compiled program to generate a result based upon the monitoring statement;

a processor to execute the compiled program; and

an output device to communicate the result.

10. (Original)　　The system of claim 9, wherein the file creator comprises an extensible integrated development environment having a language development tool plug-in.

11. (Previously Presented)　The system of claim 9, wherein the interface comprises a program editor selected from a group of program editors comprising a Graphical User Interface program editor and a command line program editor.

12. (Original)　　The system of claim 9, wherein the file creator is able to create the temporary source file based upon the code segment, wherein the code segment is selected from a group of code segments comprising a code segment to parse strings, a code segment to perform binary shifting, a code segment to format files, a code segment of an Application Programming Interface, and a code segment of a library.

13. (Cancelled)

14. (Original)　　The system of claim 9, wherein the adaptive compiler is able to initiate compilation of the temporary source file, output a compilation error, and alter contents of the temporary source file to resolve the compilation error.

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15.   (Currently Amended) A computer program product comprising a computer useable medium having a computer-readable program, wherein the computer-readable program when executed on a computer, cause said computer to perform operations, comprising:

selecting a code segment from a source file for testing based upon input from a user, the code segment being self-contained;

machine-rendering a source code skeleton in response to selecting the code segment, wherein machine-rendering comprises incorporating additional code other than the code segment into the source code skeleton;

verifying that the code segment has an entry point ~~to determine that the code segment does not have an entry point~~;

inserting the entry point into the source code skeleton in response to determining that the code segment does not have the entry point;

incorporating the code segment into the source code skeleton to generate a temporary source file;

inserting a monitoring statement into the temporary source file, the monitoring statement to provide runtime data associated with the code segment; ~~and~~

compiling the temporary source file into a compiled program; and

executing the compiled program to output a result based upon the monitoring statement ~~when the temporary source file is executed~~.

16.   (Currently Amended) The computer program product of claim 15, wherein the computer-readable program when executed causes the computer to perform further operations comprising:

~~executing the compiled program; and~~

~~outputting~~displaying the result in response to the executing, wherein the result is based upon the monitoring statement.

17.   (Cancelled)

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18. (Previously Presented) The computer program product of claim 15, wherein compiling comprises inserting a line of code into the temporary source file to resolve a compilation error.

19.-20. (Cancelled)

21. (Previously Presented) The method of claim 1, wherein machine-rendering further comprises modifying the additional code, wherein the additional code is from the source file, and inserting modified additional code into the source code skeleton.

22. (Previously Presented) The method of claim 1, wherein choosing additional code comprises copying the additional code from the source file and pasting the additional code into the source code skeleton, the additional code comprising at least a variable definition, a variable assignment, a library reference, and the entry point.

23. (Previously Presented) The system of claim 9, wherein the file creator comprises functionality to machine-render by modifying the additional code, wherein the additional code is from the source file, and inserting modified additional code into the source code skeleton.

24. (Previously Presented) The system of claim 9, wherein the file creator comprises functionality to copy the additional code from the source file and paste the additional code into the source code skeleton, the additional code comprising at least a variable definition, a variable assignment, a library reference, and the entry point.